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Funeral car.....	10 for 8	Funeral car.....	10 for 8
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Funeral car.....	10 for 8	Funeral car.....	10 for 8
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Adults Casket regular.....	\$40 for \$25	Child's Casket regular.....	\$12 for \$8
Embalming.....	25 for 12	Embalming.....	25 for 12
Funeral Car.....	10 for 8	Funeral car.....	10 for 8
Saving \$30	\$75 for \$45	Saving \$19	\$47 for \$28

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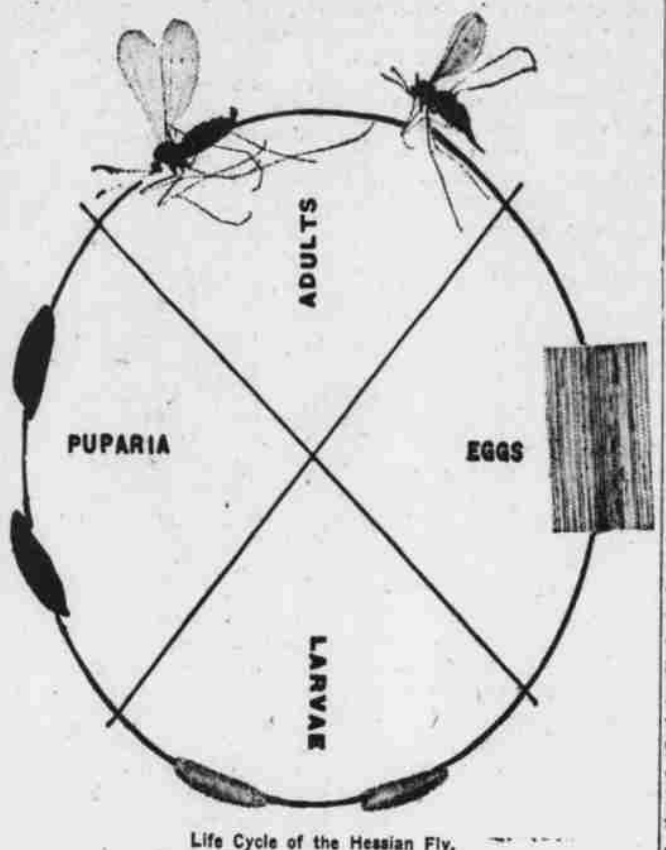
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SOME FACTS ABOUT THE HESSIAN FLY WHICH THREATENS THE WHEAT FIELDS

Some Suggestions for Controlling the Pest, Prompted by Results of Many Experiments Conducted by the State Agricultural College
—A Bulletin on the Subject Issued by the State Entomologists.

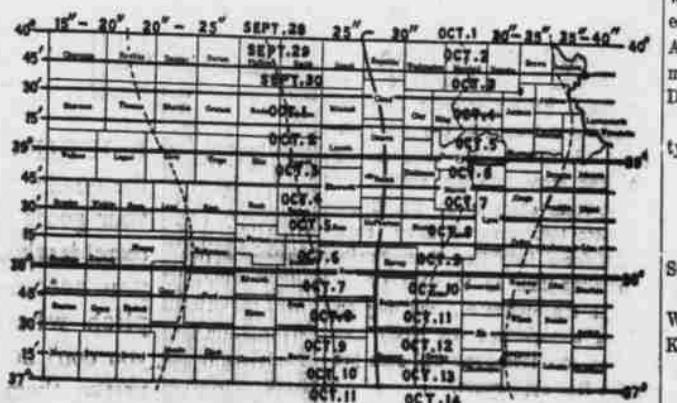
[By James W. McCulloch, Assistant Entomologist, K. S. A. C.]
ALTHOUGH the Hessian fly has been present in Kansas over forty-two years there has not been a complete treatise written concerning it until this year when the Department of Entomology of the Kansas State Agricultural College issued an exhaustive bulletin on it. During the time that the fly has been present in the State there have been



Life Cycle of the Hessian Fly.

seven well marked outbreaks in which many millions of bushels of wheat have been destroyed, and at this time we are facing another serious outbreak, especially in many localities in eastern Kansas. This bulletin coming at this time should be in the hands of every wheat raiser, especially in the eastern half of the State.

The Hessian fly passes through four different stages in the course of its development—eggs, maggot, flaxseed, and adult. These stages are so different that the average person would not suspect any relationship between them. The adult fly is a tiny long-legged gnat resembling a mosquito. The eggs are usually deposited in the creases on the upper surface of the leaves. They are so small and inconspicuous as to be barely visible to the unaided eye and resemble wheat rust just starting. The maggots are whitish in color and are found between the leaf sheath and the stalk. The flaxseed stage is the one with which most farmers are acquainted. It is the reddish-brown stage found in the late fall and after harvest just above the crown or nodes of the plant. There is a great variation in the length of the life cycle of the fly, ranging from forty-five days to over twelve months.



Map of Kansas showing date of safe wheat sowing calculated directly from 1907-'08, 1908-'09, 1909-'10, experimental sowings.

It has been found that dry and cool tend to lengthen the life cycle, while moist and warm weather shorten it. The number of broods of the Hessian fly in Kansas has been found to be variable, ranging from two to five. In 1908 there were five broods—the main-spring, supplementary-spring, mid-summer, main-fall and supplementary-fall. In 1913 there were three broods—the main-spring, supplementary-spring, and main-fall. In dry summers, it is likely that the mid-summer and supplementary-fall broods would not appear and in very dry years, particularly when the drouth begins early, the supplementary-spring brood might be eliminated. The flies which compose these broods may come from as many as three different sources—old stubble, regular crop, and volunteer wheat—and the measures of control must be of such a nature as to close up all of these sources of supply. The Hessian fly is materially influenced by climatic conditions. Low temperatures or low moisture, or both acting simultaneously, always retard its development. High temperatures and low moisture, such as we had during the past summer, greatly retard the development, but does not necessarily prove fatal. High temperatures and plenty of moisture are

very favorable to the development of the fly. It has been found that there are a number of predaceous and parasitic enemies which always tend to reduce the number of flies, but their efficiency is so irregular that dependence on them for protection is folly. During the past seven years the Kansas Experiment Station has con-

ducted many experiments with regard to the measures of controlling the fly. Many of the measures often advocated by the farmers and papers were found of no avail. Among these methods might be mentioned grazing, rolling, mowing, burning the stubble, intermittent wheat culture and trap planting. The methods of control which have been found to be effective are consistent with good wheat growing. When the farmer finds about harvest time that his wheat has been damaged by the fly he should plan to combat the fly or else suffer greater loss in the next crop. When wheat is to follow infested wheat the field should be disked immediately after harvest. This not only conserves the moisture and makes plowing easier, but also starts the growth of volunteer wheat and has a tendency to bring about the early emergence of the fly. About three or four weeks later the ground should be plowed at least six inches deep. In doing this care should be taken to see that all stubble and volunteer wheat are buried under at least three inches of soil. Immediately after plowing the ground should be worked down into a good seed bed by repeated use of packers and harrows. The surface must be left covered with a dust

mulch and this mulch must be remade after each rain. Soil thus prepared will germinate wheat without delay whenever sown. The crop should not be planted until at least the safe-sowing date, which may easily be determined from the accompanying map. With this procedure, if one has good seed and fertile soil, there will be little injury from the fly.

When wheat is planted on land that was not in wheat, rye or barley, the ground should be prepared in the best method possible to obtain a good seed bed and the crop planted on or after the fly-free date. The bulletin on the Hessian fly contains about fifty pages and is well illustrated. Copies may be had by writing to the director of the Kansas State Experiment Station, Manhattan, Kas.

Diversified farming does not mean diversification for the sake of variety. It requires that there be a place and a purpose for every crop grown, and that the crop be adapted to the purpose for which it is grown. This is intelligent diversification.

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GREAT BEND, KANSAS

DON'T BELIEVE IN EUGENICS.

"This eugenics business may be all right to a certain extent," says one of the Kansas bachelors, "but they are liable to run it in the ground. I see that a physician who has made a study of the Wisconsin law providing for the examination of candidates for matrimony to see whether they are physically and mentally fit to get tied up, says that in order to comply with the law the examining physician should make at least a dozen tests and that the trying out process should cover a period of at the least six months. He should not only test the prospective bridegroom's lungs, liver and lights, and also find out whether his transverse colon is in track with his duodenum, but he must bore a hole in his spine and extract some of the spinal fluid and test it. Furthermore, he must tap the man's skull to find out first if or if he has not any brains, and second what the quality of them may be. In order to do this he must take out a small portion of the brain matter and smear it on a piece of glass so that he can see the structure of the cells. After he has got through with that, if the man is still alive, he must start in on his bones and joints and test each of them. By the time all the tests have been completed, the girl will probably be tired of waiting and marry some man in Missouri where they don't know anything about eugenics, and if she didn't, the examining physician only would have left a physical wreck didn't, the examining physician on-looking it over, she would probably beg to be excused. Yes, sir, regulations about health are all right to a certain extent, but there is such a thing as carrying it too far.

George Tucker was a business visitor from the south side Monday.

NOTICE OF FINAL SETTLEMENT.

State of Kansas, County of Barton, SS—
In the Probate Court in and for said County.

In the matter of the estate of Benjamin Karst, deceased.

Creditors and all other persons interested in the aforesaid estate are hereby notified that at the regular January term of the Probate Court in and for said County, to be held in the Probate Court room in Great Bend, and County of Barton, State of Kansas, on the 10th day of January, A. D., 1914, I shall apply to the said Court for a full and final settlement of said estate, and at such time application will be made for an order of the Court finding and adjudging who were the heirs of said deceased.

ALEX. KARST, Administrator of the estate of Benjamin Karst, deceased.
Dated Dec. 15, 1913.

First published in the Barton County Democrat Dec. 19, 1913.

NOTICE OF APPOINTMENT.

State of Kansas, Barton County, SS—

In the matter of the estate of J. W. Smith, late of Barton County, Kansas.

NOTICE OF APPOINTMENT.

Notice is hereby given that on the 17th day of December, A. D., 1913, the undersigned was, by the Probate Court of Barton County, Kansas, duly appointed and qualified as Administrator of the estate of J. W. Smith, late of Barton County, deceased. All parties interested in the said estate will take notice and govern themselves accordingly.

L. C. BREEDEN, Administrator
First published in the Barton County Democrat Dec. 19, 1913.

NOTICE OF APPOINTMENT.

State of Kansas, Barton County, SS—

In the matter of the estate of David G. Heinze, late of Barton County, Kansas.

NOTICE OF APPOINTMENT.

Notice is hereby given, that on the 12th day of December, A. D., 1913, the undersigned was, by the Probate Court of Barton County, Kansas, duly appointed and qualified as Administrator of the estate of David G. Heinze, late of Barton County, deceased. All parties interested in said estate will take notice and govern themselves accordingly.

ELIZABETH HEINZE, Administrator.
First published in the Barton County Democrat Dec. 19, 1913.

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